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- PRINCIPLO INC.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
APPLICATION NO. 09/721,264	11/21/2000	Daryl J. Pocker	SJO990197US1	3418	
,			EXAMINER		
INTELLECTUAL PROPERTY LAW OFFICE			PADGETT, MARIANNE L		
1901 S. BASCOM AVENUE, SUITE 660		60	ART UNIT	PAPER NUMBER	
CAMPBELL, (CA 95008		1762		
	:		DATE MAIL ED: 11/07/200	3	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	1 10	á
Office Action Summary	19 Tayolas	1000	Keradud	
Office Action Summary	Examiner Do L	4	Group Art Unit	
	M.L. Va Set	1 1	1762	
-The MAILING DATE of this communication appears of	on the cover sheet be	neath the co	orrespondence ad	dress-
Period for Reply	- <i>-</i> 2		. 4	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE	_ MONTH(S	6) FROM THE MAI	LING DATE
 Extensions of time may be available under the provisions of 37 CFR 1. from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, such period shall, by default, a Failure to reply within the set or extended period for reply will, by statuted the total period by the Office later than three months after the mailing term adjustment. See 37 CFR 1.704(b). 	ly within the statutory minin expire SIX (6) MONTHS fron te, cause the application to	num of thirty (3 in the mailing d become ABAI	30) days will be considered fithis communicated the NDONED (35 U.S.C. 6	ered timely. ation. 133).
Status 2/2/2	2		, Š	
Responsive to communication(s) filed on	<u> </u>			··
This action is FINAL .				
☐ Since this application is in condition for allowance except for accordance with the practice under Ex parte Quayle, 1935 (or formal matters, pros e C.D. 1 1; 453 O.G. 213.	ecution as t	to the merits is cl	osed in
Disposition of Claims				
M Claim(s) 1 = 29		is/are p	ending in the appli	cation.
Of the above claim(s) 1 - / 2		is/are v	vithdrawn from con	sideration.
□ Claim(s)		is/are a	llowed.	
⊠ Claim(s) 13 - 29		is/are n	ejected.	
□ Claim(s)		is/are o	bjected to.	
□ Claim(s)			ject to restriction o	relection
Application Papers		require	ment	
Application Papers ☐ The proposed drawing correction, filed on	is _ approved _	disapprove	ed.	•
is/are objecte	d to by the Examiner			
☐ The specification is objected to by the Examiner.		4		
☐ The oath or declaration is objected to by the Examiner.			•	
Pri rity under 35 U.S.C. § 119 (a)–(d)			\	
☐ Acknowledgement is made of a claim for foreign priority und	der 35 U.S.C. § 119 (a)⊣	(d).		
☐ All ☐ Some* ☐ None of the:			1 15/10	Sar June 16 "
☐ Certified copies of the priority documents have been rec	,	•		
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□ Copies of the certified copies of the priority documents h				
in this national stage application from the International B *Certified copies not received:	•	1))		
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Atta hment(s)				
☐ Information Disclosure Statement(s); PTO-1449, Paper No(s)	🗆 Inte	erview Sumn	nary, PTO-413	,
□ Notice of Reference(s) Cited, PTC 4892	tic of Info _m	nal Patent Applicat	ion, PTO-152	
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	ner	<u>^</u>		
Office Acti	on Summary	· r' 'a	• •	. 1

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1. Claims 13 and 27 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The body specification does not appear to have the ranges of low energy being "less than approximately 20 eV" or "from approximately 10 eV to approximately 20 eV" recited therein. These ranges are not new matter, because the original claim 22 had the latter, supporting the highest upper limit, page 5, line 10 teaches "less than or equal to approximately 10 eV"; and page 8 teaches "10 to 20 eV" (no approx.), however to be properly enabled the body of the specification need to teach the whole range. Also see discussion on p 2 of paper#9, mailed 3/31/2003.

Also, where is the support for the new range limit for high-energy carbon ions in claim 13 of > 50eV? It is not in the original claims, which include this lower limit as an intermediate energy range, thus appears to contradict the original specification.

2. Claims 13-21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Calling the high-energy > 50eV appears to be unsupported hence New Matter. See above discussion, and note original claim 15-17.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.



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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 13-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Falabella (5,763,087), in view of Ueda et al (5,776,602), optionally in view of Schmidt if al (5,750,210), as discussed in section #4 of paper #9 (3/31/03).

Applicant has clarified ion energy ranges in all their independent claims, however as previously noted Falabella suggest useful energies covering claimed energies, ie. 20eV to 200eV, where the suggestion of grading is present, especially when combined with Ueda et al (602). While applicants call each of their separate energy deposited coatings a layer with a thickness, they may equally be considered sub-layers of the total carbon layer, and one could label the graded sub-layers of the above combination separate layers also. As presently claimed, this layer distinction is only a semantics argument, unless the claims are given more significant substance related thereto.

- 5. Applicant's arguments filed 7/3/03 and discussed above have been fully considered but they are not persuasive.
- 6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing

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date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication should be directed to M L. Padgett at telephone number 703-308-2336 or after mid December (571) 272-1425, on M-F from about 8:30 am-4:30 pm; and FAX #(703) 872-9306.

M.L. Padgett/lap

October 27, 2003

November 6, 2003

MARIANNE PADGETT PRIMARY EXAMINER